| Index of Claims |  |
|-----------------|--|
|                 |  |

| Application No.  | Applicant(s)    |  |  |  |  |  |
|------------------|-----------------|--|--|--|--|--|
| 09/648,451       | KAWAMATA ET AL. |  |  |  |  |  |
| Examiner         | Art Unit        |  |  |  |  |  |
| Lawrence Shrader | 2124            |  |  |  |  |  |

| Rejected    | <u> </u> | (Through numeral)<br>Cancelled |
|-------------|----------|--------------------------------|
| <br>Allowed | ÷        | Restricted                     |

| N | Non-Elected  |
|---|--------------|
| ı | Interference |

Lawrence Shrader

| Α | Appeal   |  |
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| o | Objected |  |

| Cla      | aim Date |                                     |                        |             | CI              | aim                 | Date  | э        |          |  | Date      |              |          |                      |          |              |          |                 |          |   |
|----------|----------|-------------------------------------|------------------------|-------------|-----------------|---------------------|-------|----------|----------|--|-----------|--------------|----------|----------------------|----------|--------------|----------|-----------------|----------|---|
| Final    | Original | 6/22/04                             |                        |             |                 |                     |       | Final    | Original |  |           | Final        | Original |                      |          |              |          |                 |          |   |
| 1        | 1        | =                                   |                        |             |                 |                     |       |          | 51       |  |           |              | 101      |                      |          |              |          |                 |          |   |
|          | _2_      | •                                   |                        |             |                 | $\perp$             |       |          | 52       |  |           |              | 102      | $\perp$              |          | _            |          | _               |          |   |
|          | 4        |                                     |                        |             |                 | $\perp$             | _     |          | 53       |  |           |              | 103      |                      |          |              | 1_       | _               |          |   |
| 2        | 4        | =                                   |                        |             | $\perp$         | $\perp$             | _     |          | 54       |  | _         |              | 104      |                      |          | ╄.           | 1        |                 | _        |   |
| 3        | 5        | =                                   |                        |             |                 | $\perp \perp$       | _     |          | 55       |  |           |              | 105      |                      | _        | ╙            |          | _               |          |   |
| 4        | 6        | =                                   |                        |             |                 |                     | _ ::  |          | 56       |  | _         |              | 106      |                      |          | _            | $\perp$  | _               |          |   |
|          | -        |                                     |                        |             |                 | $\perp$             | _     |          | 57       |  |           |              | 107      |                      |          | 1            | Ш        | _               |          |   |
|          | ф        |                                     |                        |             |                 | $\perp \perp \perp$ | 4:::  |          | 58       |  |           |              | 108      |                      |          | <u> </u>     |          |                 |          |   |
|          | سور      |                                     |                        |             |                 |                     |       | <u> </u> | 59       |  |           |              | 109      |                      |          | $\perp$      | 1        | _               | _        |   |
| ļ        | 4        |                                     |                        | $\perp$     | $\sqcup$        | $\perp$             | _     | <u> </u> | 60       |  |           |              | 110      |                      |          | <b>.</b>     | 1        |                 | _        |   |
|          | 11       |                                     |                        |             |                 |                     | _     |          | 61       |  |           |              | 111      |                      |          | $\bot$       |          |                 | -        | _ |
|          | 12       |                                     |                        | _           | $\sqcup$        |                     | 4     |          | 62       |  |           |              | 112      |                      | _        | $\bot$       | 1        | _               | _        |   |
|          | 13       |                                     |                        |             |                 |                     | _ ::: |          | 63       |  |           |              | 113      |                      |          | 1            |          | _               | _        |   |
|          | 14       |                                     |                        |             | oxdot           | $\perp \downarrow$  | _ ::: | <u> </u> | 64       |  |           | ļ            | 114      |                      | _        | $\perp$      |          | _               | _        |   |
|          | 15       |                                     |                        |             | <u> </u>        |                     |       | ļ        | 65       |  |           |              | 115      |                      |          | _            | 1        | _               | _        |   |
|          | 16       |                                     |                        |             |                 |                     | _     | <u> </u> | 66       |  | _         |              | 116      |                      |          | -            | 1        |                 | _        |   |
|          | 17       |                                     |                        |             | _               |                     | _     | <u> </u> | 67       |  | _         |              | 117      |                      |          | 4_           | 1        |                 | _        |   |
|          | 18       |                                     |                        |             | lacksquare      |                     | _     |          | 68       |  | _         |              | 118      |                      |          | ↓.           | <b>-</b> |                 | _        | _ |
| L        | 19       | L                                   |                        |             | Щ.              |                     |       | ļ        | 69       |  |           |              | 119      |                      | _        | +            |          |                 |          | _ |
| ļ        | 20       |                                     |                        |             |                 |                     | _     |          | 70       |  | _ :::     | ļ            | 120      |                      |          | 1            |          |                 |          |   |
| <u></u>  | 21       |                                     |                        |             |                 |                     | _     | L        | 71       |  |           |              | 121      |                      |          | $\bot$       | -        |                 | _        |   |
|          | 22       |                                     |                        |             |                 |                     | _     |          | 72       |  |           | <u> </u>     | 122      |                      |          | ↓            | 1_       |                 |          |   |
|          | 23       |                                     | $\sqcup \sqcup$        |             |                 |                     |       |          | 73       |  | _         | <u></u>      | 123      |                      |          | -            | 1        | $\Box$          |          |   |
|          | 24       | L                                   |                        |             | $\sqcup$        |                     | _     |          | 74       |  | _         | <u> </u>     | 124      |                      |          | +            | ₩        | _               |          |   |
|          | 25       |                                     |                        |             | $\sqcup$        | $\perp$             | _     |          | 75       |  | _         |              | 125      | -                    |          |              | $\vdash$ | $\vdash$        |          |   |
|          | 26       |                                     |                        |             |                 | $\rightarrow$       | _     |          | 76       |  | _         |              | 126      |                      | _        | 4            |          |                 | -        | _ |
| L        | 27       |                                     |                        |             |                 | $\rightarrow$       | _     | <u> </u> | 77       |  | _         |              | 127      |                      |          | $\downarrow$ | +        |                 |          | _ |
|          | 28       |                                     |                        |             |                 |                     | _     | -        | 78       |  |           |              | 128      |                      |          | +            | +-       | $\vdash$        |          |   |
|          | 29       | _                                   |                        | _           |                 | $\perp$             |       | ļ        | 79       |  | _         |              | 129      |                      |          |              | -        |                 | -        |   |
|          | 30       | <u> </u>                            |                        |             | Ш-              | $\rightarrow$       | _     |          | 80       |  | :::       |              | 130      |                      |          | +            | ┼        |                 |          |   |
|          | 31       | <u> </u>                            |                        |             |                 |                     |       |          | 81       |  |           |              | 131      |                      |          | -            | -        |                 | $\dashv$ | _ |
|          | 32       | ļ                                   |                        |             | $\vdash$        |                     | -     |          | 82       |  | -         | <u> </u>     | 132      |                      |          | +            | ₩        |                 |          |   |
|          | 33       | _                                   |                        | _           | $\vdash$        |                     | -     | ļ        | 83       |  |           | -            | 133      |                      | -        | +            | -        |                 |          |   |
|          | 34       | _                                   |                        |             | $\vdash \vdash$ |                     |       | 1        | 84       |  |           | <u> </u>     | 134      | <del>    -  </del>   |          | +-           | +        | $\vdash$        | +        | _ |
|          | 35       | ļ                                   |                        |             | $\vdash$        |                     |       |          | 85       |  | $\dashv$  | <u> </u>     | 135      |                      | $\vdash$ | +            | +        | $\vdash$        | $\dashv$ |   |
|          | 36       | <u> </u>                            |                        |             | $\vdash$        | $\rightarrow$       |       | <u> </u> | 86       |  |           | <u> </u>     | 136      |                      |          |              | +        |                 |          | _ |
| <u></u>  | 37       | $\vdash$                            | $\vdash \vdash \vdash$ | +           | -               |                     | -     | -        | 87       |  | $\dashv$  | <u> </u>     | 137      | $\vdash\vdash$       | $\vdash$ | +            | +        |                 | -        | _ |
|          | 38       | ļ                                   |                        | +           | -               | +                   | -1    |          | 88       |  | -         | <u> </u>     | 138      | -+                   |          | +            | +        | $\vdash$        | +        |   |
| <u> </u> | 39       | <u> </u>                            |                        |             | -               |                     |       | -        | 89       |  |           |              | 139      | $\vdash\vdash\vdash$ | -        | +            | +        | $\vdash$        | +        | _ |
| <u> </u> | 40       | <u> </u>                            |                        | +           | $\vdash$        | +                   | -     | -        | 90       | <del></del>  | -         | <u> </u>     | 140      |                      |          | +            | +        | $\vdash$        | -+       | _ |
| <u> </u> | 41       | <u> </u>                            | +++                    |             |                 | $\dashv$            |       |          | 91       |  | Щ.        | <u> </u>     | 141      | $\vdash\vdash\vdash$ |          | +            | +-       |                 | $\dashv$ |   |
| <u> </u> | 42       | _                                   | +++                    |             |                 | $\dashv$            |       | -        | 92       | <del>-   -   -   -   -   -   -   -   -   -  </del> | -         | <del> </del> | 142      | $\vdash$             |          | +-           | +-       |                 | +        |   |
| <u> </u> | 43       | _                                   | $\sqcup \sqcup$        | -           | $\vdash$        | +                   | 4     | -        | 93       |  | $\vdash$  | <u> </u>     | 143      |                      |          | +            |          | $\square$       | +        |   |
|          | 44       | _                                   | $\sqcup \sqcup$        | +           | 1-1             | +                   | 4     | -        | 94       |  | $\vdash$  |              | 144      | <del></del>          |          | - -          | +-       | $\vdash$        | +        |   |
|          | 45       | _                                   |                        | <del></del> | ⊢ -             |                     | _     | <u> </u> | 95       |  | $\square$ | <u> </u>     | 145      |                      | -        | +            | -        | $\vdash$        |          |   |
|          | 46       | -                                   | $\sqcup \sqcup$        |             |                 | $\perp \perp$       |       |          | 96       |  | <u> </u>  | <u> </u>     | 146      |                      | <u> </u> | 4            | _        | $\square$       | _        | _ |
| <u></u>  | 47       | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |                        |             | $\sqcup$        | _ _                 |       | <u> </u> | 97       |  | Щ         | <u> </u>     | 147      |                      |          | +            |          |                 | $\dashv$ | _ |
|          | 48       | <u> </u>                            | _ _                    |             | $\sqcup$        | _ _                 | _     | 1        | 98       |  | $\vdash$  | <u> </u>     | 148      | $\vdash$             |          | +            | -        | $\vdash$        | $\dashv$ |   |
|          | 49       | _                                   | $\sqcup \sqcup$        |             |                 | $\dashv \downarrow$ | 4     | <b> </b> | 99       |  | Н         | <u> </u>     | 149      |                      | Н-       | +            | -        | $\vdash \vdash$ |          |   |
| Щ.       | 50       | L_                                  |                        |             |                 |                     |       | :        | 100      |  | Ш         | L            | 150      | L_L_                 |          | L.           |          | لـــا           |          |   |